

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. TBA  
Applicant(s): THOMAS HAAS, ET AL.  
Filed: Concurrently Herewith  
TC/A.U. TBA  
Examiner: TBA  
Title: Novel Aqueous Hydrogen Peroxide Solutions

Confirmation No.:

Docket No.: 032301.309  
Customer No.: 25461

MAIL STOP PATENT APPLICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. 1.56, Applicants are enclosing an Information Disclosure Statement by Applicant (Form PTO/SB/08A) and copies of the documents cited therein. The relevance of DE 100 26 363, US 4 999 179, EP 0 100 119, EP 0 230 949, EP 0 757 043, EP 0 712 852, WO 00/76989, WO 01/57012, WO 01/92242, DE 199 36 547, and EP 1 138 387 is indicated in the specification being submitted herewith. The relevance of EP 1 167 290, US 6 333 018, and *Ullman* is indicated in the European Search Report (dated March 26, 2003) being submitted herewith. Also enclosed is a list of pending patent applications and issued patents related to the subject application. The relevance of the remainder of the cited references is indicated in the related patents and patent applications.

It is respectfully requested that the cited documents be considered by the Examiner in the above-identified patent application and that the cited documents be made officially of record

---

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as **Express Mail** (label no. EV 327362284 US) addressed to Mail Stop Patent Applications, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on September 24, 2003.

  
Susan J. Revell

New Patent Application for  
"Novel Aqueous Hydrogen Peroxide Solutions"

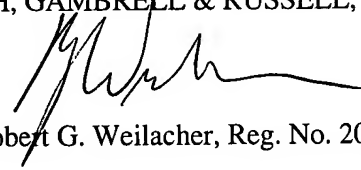
---

therein. It is further requested that a listing of the same appear on the face of any patent which may issue from this application.

A first Official Action has not yet issued for this application. Therefore, it is believed that no fees are due under 37 C.F.R. Section 1.97(b)(3).

Respectfully submitted,

SMITH, GAMBRELL & RUSSELL, LLP



By: Robert G. Weilacher, Reg. No. 20,531

Dated: September 24, 2003  
Suite 3100, Promenade II  
1230 Peachtree Street, N.E.  
Atlanta, Georgia 30309-3592  
Ph: (404) 815-3593  
Fax: (404) 685-6893

New Patent Application for  
"Novel Aqueous Hydrogen Peroxide Solutions"

---

**RELATED U.S. PATENT APPLICATIONS AND ISSUED U.S. PATENTS**

1. U.S. Pat. No.: 6,600,055  
Issue Date: 07/29/2003  
Applicant(s): Thomas HAAS et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.176
2. U.S. Pat. No.: 6,608,219  
Filing Date: 08/19/2003  
Applicant(s): Thomas HAAS et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.177
3. U.S. Pat. No.: 6,596,881  
Filing Date: 07/22/2003  
Applicant(s): Thomas HAAS et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.178
4. Serial No.: 10/174,549  
Filing Date: 06/18/2002  
Applicant(s): Willi HOFEN et al.  
Title: Process for the Recovery of Combustible Components of a Gas Stream  
Atty. Dkt. No.: 032301.179
5. U.S. Pat. No.: 6,610,865  
Filing Date: 08/26/2003  
Applicant(s): Willi HOFEN et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.2081
6. U.S. Pat. No.: 6,596,883  
Filing Date: 07/22/2003  
Applicant(s): Willi HOFEN et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.210
7. U.S. Pat. No.: 6,617,465  
Issue Date: 09/09/2003  
Applicant(s): Georg THIELE et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.252
8. Serial No.: 10/384,217  
Filing Date: 03/07/2003  
Applicant(s): Willi HOFEN et al.

New Patent Application for  
"Novel Aqueous Hydrogen Peroxide Solutions"

---

- Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.270
9. Serial No.: 10/428,607  
Filing Date: 05/02/2003  
Applicant(s): Thomas HAAS et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.282
10. Serial No.: 10/463,780  
Filing Date: 06/17/2003  
Applicant(s): Willi HOFEN et al.  
Title: Process of Separating 1-Methoxy-2-Propanol and 2-Methoxy-1-Propanol from Aqueous Compositions  
Atty. Dkt. No.: 032301.291
11. Serial No.: 10/203,186  
Filing Date: 10/04/2002  
Applicant(s): Willi HOFEN et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.292
12. Serial No.: 10/203,184  
Filing Date: 10/04/2002  
Applicant(s): Willi HOFEN et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.293
13. U.S. Pat. No.: 6,624,319  
Issue Date: 09/23/2003  
Applicant(s): Willi HOFEN et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.294
14. Serial No.: 60/414,329  
Filing Date: 09/30/2002  
Applicant(s): Thomas HAAS et al.  
Title: Process for the Epoxidation of Olefins  
Atty. Dkt. No.: 032301.310
15. Serial No.: 60/428,932  
Filing Date: 11/26/2002  
Applicant(s): Willi HOFEN et al.  
Title: Process for the Purification of Crude Propene Oxide  
Atty. Dkt. No.: 032301.319

New Patent Application for  
"Novel Aqueous Hydrogen Peroxide Solutions"

---

16.    Serial No.:     60/428,934  
       Filing Date:    11/26/2002  
       Applicant(s):   Thomas HAAS et al.  
       Title:            Process for the Epoxidation of Olefins  
       Atty. Dkt. No.: 032301.320
  
17.    Patent No.:    5,620,935  
       Issue Date:     04/15/1997  
       Serial No.:      08/664,010  
       Filing Date:     06/14/1996  
       Applicant(s):    Georg THIELE  
       Title:            Method for the Regeneration of A Catalyst  
       Atty. Dkt. No.: 032301.52195
  
18.    Patent No.:    5,675,026  
       Issue Date:     10/07/1997  
       Serial No.:      08/668,451  
       Filing Date:     06/21/1996  
       Applicant(s):    Georg THIELE  
       Title:            Process for the Production of Epoxides from Olefins  
       Atty. Dkt. No.: N/A
  
19.    Patent No.:    6,372,924  
       Issue Date:     04/16/2002  
       Serial No.:      09/663,703  
       Filing Date:     09/18/2000  
       Applicant(s):    Georg THIELE  
       Title:            Process for the Preparation of Epoxides from Olefins  
       Atty. Dkt. No.: N/A

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	To Be Assigned
Filing Date	Concurrent Herewith
First Named Inventor	HAAS, Thomas et al.
Group Art Unit	To Be Assigned
Examiner Name	To Be Assigned
Attorney Docket Number	032301.309

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US- 2,870,171	01-20-1959	GABLE	5 pages
		US- 4,410,501	10-18-1983	TARAMASSO ET AL.	8 pages
		US- 4,833,260	05-23-1989	NERI ET AL.	7 pages
		US- 4,999,179	03-12-1991	SUGIHARA ET AL.	6 pages
		US- 5,523,426	06-04-1996	JUBIN, JR. ET AL.	8 pages
		US- 5,591,875	01-07-1997	CHANG ET AL.	6 pages
		US- 5,599,955	02-04-1997	VORA ET AL.	11 pages
		US- 5,620,935	04-15-1997	THIELE	4 pages
		US- 5,675,026	10-07-1997	THIELE	7 pages
		US- 5,760,253	06-02-1998	DANNER ET AL.	9 pages
		US- 5,849,937	12-15-1998	JUBIN, JR. ET AL.	9 pages
		US- 5,849,938	12-15-1998	REUTER ET AL.	6 pages
		US- 5,912,367	06-15-1999	CHANG	6 pages
		US- 6,042,807	03-28-2000	FARAJ	6 pages
		US- 6,063,941	05-16-2000	GILBEAU	4 pages
		US- 6,372,924	04-16-2002	THIELE	6 pages
		US- 6,429,322	08-06-2002	CATINAT ET AL.	3 pages

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		DE 100 26 363	11-29-2001	MERCK PATENT GMBH	9 pages	✓
		DE 196 23 611	12-18-1997	BASF AG	7 pages	✓
		DE 197 23 950	12-10-1998	BASF AG	15 pages	✓
		DE 197 54 185	02-04-1999	DEG ENGINEERING GMBH	7 pages	✓
		DE 198 35 907	02-17-2000	BASF AG	11 pages	✓
		DE 199 36 547	02-15-2001	BASF AG	11 pages	✓
		EP 0 100 118	02-08-1984	ANIC SPA	15 pages	
		EP 0 100 119	02-08-1984	ANIC SPA	21 pages	
		EP 0 133 510	02-27-1985	BASF AG	8 pages	✓
		EP 0 230 349	07-29-1987	INTERNATIONAL BUSINESS MACHINES CORP	58 pages	
		EP 0 230 949	08-05-1987	ENIRICERCH SPA	18 pages	
		EP 0 425 893	05-08-1991	BASF AG	7 pages	✓
		EP 0 568 336	11-03-1993	ARCO CHEMICAL TECHNOLOGY INC	13 pages	
		EP 0 568 337	11-03-1993	ARCO CHEMICAL TECHNOLOGY LP	15 pages	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

3

**Complete if Known**

Application Number

To Be Assigned

Filing Date

Concurrent Herewith

First Named Inventor

HAAS, Thomas et al.

Group Art Unit

To Be Assigned

Examiner Name

To Be Assigned

Attorney Docket Number

032301.309

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		EP 0 583 828	02-23-1994	THE DOW CHEMICAL COMPANY	9 pages	
		EP 0 645 473	03-29-1995	NIPPON PAINT COMPANY LIMITED	13 pages	
		EP 0 659 473	06-28-1995	ARCO CHEMICAL TECHNOLOGY LP	11 pages	
		EP 0 712 852	05-22-1996	ARCO CHEMICAL TECHNOLOGY LP	11 pages	
		EP 0 719 768	07-03-1996	ARCO CHEMICAL TECHNOLOGY, LP	6 pages	
		EP 0 757 043	02-05-1997	DEGUSSA AG	12 pages	✓
		EP 0 757 045	02-05-1997	ARCO CHEMICAL TECHNOLOGY LP	10 pages	
		EP 0 795 537	09-17-1997	ENICHEM SPA	7 pages	
		EP 0 827 765	03-11-1998	NIPPON SHOKUBAI CO LTD	66 pages	
		EP 0 930 308	07-21-1999	ENICHEM SPA	10 pages	
		EP 0 936 219	08-18-1999	LINDE AG	10 pages	
		EP 0 940 393	09-08-1999	ENICHEM SPA	9 pages	
		EP 1 072 599	01-31-2001	ENICHEM SPA	10 pages	
		EP 1 072 600	01-31-2001	ENICHEM SPA	11 pages	
		EP 1 122 248	08-08-2001	DEGUSSA AG	10 pages	
		EP 1 138 387	10-04-2001	DEGUSSA AG	10 pages	
		EP 1 167 290	01-02-2002	SANTOKU CHEMICAL INDUSTRIES CO LTD	16 pages	
		EP 1 221 442	07-10-2002	DEGUSSA AG	7 pages	
		FR 2 810 981	01-04-2002	SOLVAY SA	24 pages	✓
		JP 2166636	06-27-1990	SONY CORP.	8 pages	✓
		WO 00/07695	02-17-2000	BASF AG	7 pages	✓
		WO 00/17178	03-30-2000	ARCO CHEMICAL TECHNOLOGY LP	24 pages	
		WO 00/25881	05-11-2000	KRUPP UHDE GMBH	37 pages	✓
		WO 00/76989	12-21-2000	BASF AG	18 pages	✓
		WO 97/47613	12-18-1997	BASF AG	17 pages	✓
		WO 97/47614	12-18-1997	BASF AG	21 pages	✓
		WO 98/47845	10-29-1998	BASF AG	16 pages	✓
		WO 99/01445	01-14-1999	ARCO CHEMICAL TECHNOLOGY LP	24 pages	
		WO 99/07690	02-18-1999	ARCO CHEMICAL TECHNOLOGY, LP	16 pages	
		WO 99/11639	03-11-1999	ARCO CHEMICAL TECHNOLOGY, LP	20 pages	
		WO 01/57012	08-09-2001	SOLVAY SA	25 pages	✓
		WO 01/92242	12-06-2001	SOLVAY SA	14 pages	
		WO 02/02545	01-10-2002	BASF AG	26 pages	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	To Be Assigned
				Filing Date	Concurrent Herewith
				First Named Inventor	HAAS, Thomas et al.
				Group Art Unit	To Be Assigned
				Examiner Name	To Be Assigned
Sheet 3	of 3	Attorney Docket Number	032301.309		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		GOOR, G. ET AL., "Ullmann's Encyclopedia of Industrial Chemistry, Fifth Edition," 1989, pages 447-457, Vol. A 13, XP-002233848, VCH Verlagsgesellschaft, Weinheim, Germany (11 pages)	
		EUROPEAN SEARCH REPORT, dated March 26, 2003, issued by the European Patent Office for European Patent Application No. EP 02021967.1 (4 pages)	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.